Claims

1. Device for temporal slaving in a packet data transmission network, each data packet comprising a time label, the said device comprising means of temporary storage (6), intended to receive the packets received from the said network and being characterized in that

- the means of temporary storage (6) have a storage capacity able to record data received for a predetermined time (IPDV) dependant on the characteristics of the network (5),

- the said device furthermore comprising

- means (7) for regenerating a local reception clock as a function of the time label of the incoming packets,

- means for reading the data in the means of temporary storage at an instant dependent on the said predetermined time (IPDV) and on the regenerated local reception clock.

2. Device according to Claim 1, characterized in that the means of reading the data in the means of temporary storage (6) are adapted for reading the data in the means of temporary storage (6) when the difference between the said predetermined time (IPDV) and the regenerated local clock is greater than the value of the time label of the next packet to be output from the means of temporary storage (6).

3. Device according to one of Claims 1 to 2, characterized in that the means of regenerating the local clock are able to aggregate the discrepancies between the local reception clock (Rx) for the data packets and the time labels of the data packets received between two instants dependent on the frequency of the local clock (Rx) and the transmission clock (Tx) for the data packets.

4. Device according to one of the preceding claims, characterized in that it comprises means of reducing the convergence time on start-up.

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5. Device according to one of the preceding claims, characterized in that it comprises means (31) of reducing the phase noise.

6. Device according to Claim 4, characterized in that the means (31) of reducing the phase noise comprise a digital low-pass filter.

7. Device according to one of the preceding claims, characterized in that it comprises means (32) of generating artificial noise.

8. Method of temporal slaving in a packet data transmission network, each data packet comprising a time label, the said method comprising a step of temporary storage (6) of the packets received from the said network and being characterized in that

   - during the storage step, the data are stored for a predetermined time (IPDV) dependant on the characteristics of the network (5),
   - the said method furthermore comprising
   - a step of regenerating a local reception clock as a function of the time label of the incoming packets,
   - a step of reading the data in the means of temporary storage at an instant dependent on the said predetermined time (IPDV) and on the regenerated local reception clock.